Sheppard & Jelinek

## Clean Version of Claims

1. (Cancelled) An isolated polynucleotide which encodes a mammalian Zsig9 polypeptide wherein said polynucleotide encodes a polypeptide selected from the group SEQ ID NOs:2-6, 17, 20 19 and 21 or a polypeptide which is at least 90% identical to the polypeptides of said group.

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- 2. (Cancelled) An isolated polynucleotide which encodes a peptide or polypeptide having at least 15 amino acid residues comprised of an epitope-bearing portion of a polypeptide of SEQ ID NOs: 2-6, 17, 20 19 and 21 or a polypeptide which is at least 90% identical to said polypeptides.
- 3. (Previously Amended) The polynucleotide of claim 16 wherein the polypeptide is fused to a carrier polypeptide or other carrier molecule.
- 4. (Cancelled) An expression vector comprising the following operably linked elements:

a transcription promoter;

- a DNA segment which encodes a Zsig9 polypeptide or a peptide or polypeptide which contains an epitope-bearing region of a Zsig9 polypeptide; and a transcription terminator.
- 5. (Cancelled) An expression vector comprising the following operably linked elements:
  - (a) a transcription promoter;
- (b) a DNA segment encoding a chimeric polypeptide, wherein said chimeric polypeptide consists essentially of a first portion and a second portion joined by a peptide bond, said first portion being comprised of a mammalian polypeptide, said polypeptide being the amino acid sequences of SEQ ID NOs: 2-6, 17, 20 19 and 21 and said second portion being a second polypeptide or protein.
  - (c) a transcription terminator.
- 6. (Cancelled) An isolated Zsig9 polypeptide selected from the group of amino acid sequences consisting of SEO ID NOs: 22-6, 17, 20 19 and 21 or a polypeptide which is at least 90% identical to said polypeptides.

7. (Cancelled) An isolated peptide or polypeptide having at least 15 amino acid residues comprised of an epitope-bearing portion of a polypeptide of SEQ ID NOs: 2-6, 17, 20 19 and 21.

- 8. (Cancelled) An antibody, antibody fragment or single-chain antibody that specifically binds to a mammalian polypeptide, said polypeptide being defined by the amino acid sequences of SEQ ID NOs: 2-6, 17, 20 19 and 21 or a polypeptide which is at least 90% identical to said amino acid sequences.
- 9. (Cancelled) An antibody of claim 8 wherein said antibody is either monoclonal or polyclonal.
- 10. (Cancelled) The antibody, antibody fragment or single-chain antibody of claim 9 wherein said antibody, antibody fragment or single-chain antibody is humanized.
- or polypeptide defined by SEQ ID NOs: 2-6, 17, 20 19 and 21 or to a peptide or polypeptide which is at least 90% identical to said peptide or polypeptide comprising bringing into contact a peptide or polypeptide defined by SEQ ID NOs: 2-6, 17, 20 19 and 21 or to a peptide or polypeptide which is at least 90% identical to said peptide or polypeptide with a cell capable or producing antibodies or the cell is brought into contact with a nucleic acid which encodes said peptide or polypeptide, wherein said cell produces antibodies to said peptide or polypeptide; and isolating said antibody.
- 12. (Cancelled) The antibody of claim 11 wherein said antibody is either a polyclonal or monoclonal antibody.
- 13. (Cancelled) The method of claim 11 wherein an animal is inoculated with the peptide or polypeptide or nucleic acid under conditions wherein the animal produces antibodies to said peptide; and isolating said antibodies.
- 14. (Cancelled) The method of claim 13 wherein the antibodies are polyclonal or monoclonal.

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15. (Original) An anti-idiotypic antibody, anti-idiotypic antibody fragment or anti-idiotypic single-chain antibody which binds to an antibody, an antibody fragment or single-chain antibody of peptide or polypeptide defined by SEQ ID NOs: 2-6, 17, 20 19 and 21 or to a peptide or polypeptide which is at least 90% identical to said peptide or polypeptide.

- 16. (Previously Added) An isolated polynucleotide which encodes a polypeptide selected from the group consisting of SEQ ID NO:17, SEQ ID NO:19, SEQ ID NO:20, and SEQ ID NO:21.
  - 17. (Previously Added) The polynucleotide of claim 16 which is DNA.
- 18. (Previously Added) The polynucleotide of claim 16 wherein said polynucleotide is selected from the group consisting of SEQ ID NO:16 and SEQ ID NO:18.
- 19. (Cancelled) An isolated polynucleotide which encodes at least 15 contiguous amino acid residues of SEQ ID NO:17, SEQ ID NO:19, SEQ ID NO:20, or SEQ ID NO:21.
  - 20. (Cancelled) The polynucleotide of claim 19 which is DNA.
- 21. (Currently Amended) An expression vector comprising the following operably linked elements:

a transcription promoter;

- a DNA segment which encodes a polypeptide selected from the group consisting of: SEQ ID NO:17, SEQ ID NO:19, SEQ ID NO:20, or SEQ ID NO:21.; and a transcription terminator.
- 22. (Previously Added) The expression vector of claim 21 wherein the DNA segment encodes a polypeptide selected from the group consisting of SEQ ID NO:17, SEQ ID NO:19, SEQ ID NO:20, and SEQ ID NO:21.
- 23. (Currently Amended) The expression vector of claim 21 wherein the DNA segment encodes a chimeric polypeptide comprising a an affinity tag joined by a peptide bond to a polypeptide selected from the group consisting of SEQ ID NO:17, SEQ ID NO:19, SEQ ID NO:20, and SEQ ID NO:21.

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24. (Previously Added) The expression vector of claim 21, further comprising a secretory signal sequence operably linked to the DNA segment.

25. (New) The expression vector of claim 23, wherein the affinity tag is selected from the group comprising: a poly-histidine tract, protein A, and glutathione S transferase.